UNITED STATES DISTRICT COURT SOUTHERN DISTRICT OF OHIO EASTERN DIVISION

CARLO M. CROCE :

Case No. 2:17-cv-00338

Plaintiff,

Judge James L. Graham

VS.

Magistrate Judge Preston Deavers

DAVID A. SANDERS

.

Defendant.

Exhibit 1 to Defendant's Appendix in Support of Motion for Summary Judgment – Excerpts of Deposition of Carlo Croce

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           IN THE UNITED STATE DISTRICT COURT
           FOR THE SOUTHERN DISTRICT OF OHIO
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                                                                                                CARLO M. CROCE, MD
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                  EASTERN DIVISION
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                                                                                                 Cross-examination by Mr. Nolan
                Case No. 2:17-CV-00338
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         Carlo M. Croce,
                                                                                                           DEFENDANT'S EXHIBITS
                           Plaintiff,
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                                                                                                NUMBER DESCRIPTION
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         David A. Sanders,
                                                                                                  1 Second Amended Complaint
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CROCE(S)001632 - 1633, CONFIDENTIAL
                           Defendant.
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         Deposition of: CARLO M. CROCE, MD
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         Date and Time: Wednesday, March 27, 2019
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                        James E. Arnold & Associates
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                                                                                                     11/23/2016 letter from Glanz
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                      115 West Main Street
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Bates stamped CROCE(S)004259 - 4264,
CONFIDENTIAL
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                      Suite 400
                     Columbus, Ohio
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                                                                                                    12/29/2016 email from Melino, with
                         Maria DiPaolo Jones, RDR, CRR
         Reporter:
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                     Notary Public - State of Ohio
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        APPEARANCES:
                                                                                                           DEFENDANT'S EXHIBITS
        On behalf of Plaintiff:
                                                                                                NUMBER DESCRIPTION
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             MR. JAMES E. ARNOLD
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                                                                                                  14 1/25/2017 letter from Hill, with
             MS. JAIME GLINKA
                                                                                                    attachments, Bates stamped CROCE(S)003224 - 3246, CONFIDENTIAL
            James E. Arnold & Associates, LPA
115 West Main Street, Suite 400
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             Columbus, Ohio 43215-5099
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             614.460-1600
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        On behalf of Defendant:
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             MR. WILLIAM A. NOLAN
                                                                                                     CROCE(S)003918 - 3919, CONFIDENTIAL
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             Barnes & Thornburg, LLP
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             41 South High Street, Suite 3300
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             Columbus, Ohio 43215-6104
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             614 628 0096
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             MS. KARA KAPKE
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             Barnes & Thornburg, LLP
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CROCE(S)001700 - 1703, CONFIDENTIAL
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             11 South Meridian Street
            Indianapolis, Indiana 46204-3535 317.236.1313
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      12/12/2016 letter from Croce Bates stamped CROCE($)004075 - 4076,
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        ALSO PRESENT:
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             Dr. David A. Sanders
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Page 5 Page 7 1 CARLO M. CROCE, MD, 1 Okay. A little bit deaf? 2 being by me first duly sworn, as hereinafter 2 No. A little bit deaf, yes. 3 certified, deposes and says as follows: 3 O. Okay. 4 **CROSS-EXAMINATION** 4 I don't hear very well where there is A. 5 5 noise, but I can hear you very well. BY MR. NOLAN: 6 6 Q. Very good. So I'm glad you mentioned Q. Dr. Croce, good morning. I'm Bill Nolan 7 7 that. So if you don't hear me, will you let me know? with the law firm of Barnes & Thornburg. This is my 8 8 partner, Kara Kapke. We represent Dr. Sanders in the 9 And if you don't understand for any 9 case you filed in federal court against Dr. Sanders. 10 10 reason, will you let me know? Can you please state your full name for 11 11 Of course. the record. A. 12 Carlo Maria Croce. 12 English is not your first language? A. O. No. Italian is my first language, but I 13 Thank you. 13 A. 14 And, Dr. Croce, have you ever been deposed 14 can understand English. 15 15 before? Okay. You consider yourself fluent in 16 Yes. 16 English? A. 17 Q. How many times? 17 A. I consider myself a little fluent. 18 18 Dr. Croce, do you feel fine today? Five or six. A. 19 19 When most recently? I have a little bit of a high blood 20 For Genentech, a pharmaceutical company. 20 pressure, but otherwise I am okay. A. 21 21 I provide my expertise. Q. Is there any reason, illness, fatigue, 22 MR. ARNOLD: When? 22 medication, that you would not have your best 23 Q. Yeah, just when was the last time you were 23 recollection today? A. I don't think so. 2.4 deposed for any reason? 24 25 A. Three, four years ago. 25 Okay. Very good. Thank you. Page 6 Page 8 1 Q. Okay. So you're familiar with the 1 Dr. Croce, just a few sort of basics about 2 2 yourself. What is your current address? process. 3 3 A. Yes. At least I think so. A. Is 2140 Cambridge Boulevard here in 4 4 Q. Right. Let me just -- so this will all be Columbus, Ohio. In Upper Arlington. 5 5 very familiar to you I'm sure, but let's just go over Okay. And how long have you lived there? 6 a few understandings. First of all, it's not an 6 Since -- I been here about 14 years. 7 7 endurance contest, if you need a break, will you let Do you currently live with anybody else at Q. 8 8 me know? that address? 9 9 A. Uh-huh. No, but I have a companion who has a A. 10 10 different address so I spend some time with her. And which leads me to my second one, which is so the court reporter can have a good record 11 All right. Are you currently married? 11 O. 12 you'll need to say "yes" or "no" instead of a shake 12 No. I never been married. A. 13 of the head or "uh-huh," "huh-uh." Is that okay? 13 And do you have any other residences 14 A. 14 besides the Upper Arlington residence? 15 15 Q. Very natural to get reminded of that every Yeah, in Philadelphia, 1829 Delancey A. now and then so I will do that as politely as I can 16 16 Place. 17 from time to time probably. 17 Any others? O. 18 I'll certainly ask that you let me finish 18 Not that I know. Α 19 19 my questions. At the same time, I want to make sure Okay. You'd probably know. 20 I let you finish your answers so will you let me know 20 You don't have a residence in Italy? 21 if I inadvertently cut you off so you can finish? 21 A. I did, but I don't have it anymore. 22 22 All right. If you could just review your A. Okay. 23 Q. Okay. And also will you let me know if 23 degrees for me, where you got them, when you got them, what they are. 24 you don't understand a question of mine? 24 A. I'm a little bit deaf so speak loud. 25 25 A. I am an MD. I got my degree in 1969 at

Page 9 Page 11 1 University of Rome that is now called La Sapienza. 1 Q. Dr. Croce, I'm going to hand you what I'm 2 2 marking as Exhibit 1. 3 A. I have also an online degree in medicine 3 MR. NOLAN: You probably have that. 4 from the University of Uppsala in Sweden. 4 MR. ARNOLD: I've seen it before. 5 Q. When did you receive that? 5 Q. Dr. Croce, just for the record we'll make 6 6 A. About 25 years ago, something like that. this Defendant's Exhibit 1. That's just some 7 7 Q. All right. Any other honorary degrees? administrative stuff between the lawyers. Do you 8 8 recognize Defendant's Exhibit 1? A. No. 9 Q. And where did you receive your 9 A. Yeah, I see it. 10 10 undergraduate degree? Q. Have you seen it before? 11 A. We have a different system over in Italy. 11 A. I seen it once I think. 12 We go from high school to university, so we don't 12 All right. And I will just represent to 13 have the college period, like most of Europe. 13 you and note for the record that Exhibit 1 refers to some exhibits which are not actually attached to what 14 Q. Okay. It wouldn't be like a bachelor's 14 15 15 I've handed you as Exhibit 1; we'll probably look at and then an MD --16 A. No. 16 those later. Are you able to tell me what Exhibit 1 17 -- as you might in the United States. 17 Q. 18 No. I go from high school to medical 18 It said that is the second amended A. 19 19 complaint from me against the defendant, David A. school. 20 Very good. 20 Sanders. Q. 21 All right. So how old were you when you 21 All right. Go to the last page of Exhibit Q. 22 graduated from medical school? 22 1. 23 A. I was six year in medical school, I 23 A. Last page? Yes. 24 started when I was 18 years old, 24. 24 Q. You understand Exhibit 1 was filed on your Q. All right. And when did you move to the behalf by --2.5 25 Page 10 Page 12 1 United States? 1 By Hill. 2 A. 1970, June the 3rd. 2 -- your prior law firm? Q. 3 Q. And for what purpose? 3 Α. Correct. 4 A. I got -- I won a fellowship from a Do you recall, did you review Exhibit 1 4 5 European society to work in United States and I ended 5 before it was filed? 6 up in Philadelphia. 6 A. I'm sure I did. I'm sure I did. Tom Hill 7 Q. Have you lived in the -- has the United 7 showed that to me. 8 States been your primary residence since 1970? 8 All right. And I would just like to sort 9 A. Correct. 9 of use Exhibit 1 as a little bit of a road map for And how long did you live in Philadelphia? 10 O. 10 questions for a while. So, first of all, before we A. Oh, a long time. Until I came here. 11 11 look at some specifics in the document, just in your Until the end of 2004. 12 12 own words why did you file a lawsuit against 13 Q. In 2004 you moved to Columbus? 13 Dr. Sanders? 14 A. Yes. In October or November. 14 A. Because I was accused of doing things that 15 Q. Okay. And why did you move to Columbus? 15 I never did, and my reputation has been assaulted Because they offered me a good job. 16 16 and -- by a lot of lies, and so for a scientist a 17 "They" being The Ohio State University? O. 17 reputation is enormously important and I felt 18 A. Yeah. extremely bad that my reputation was assaulted when I 18 19 And you're still employed by Ohio State? Q. 19 did all the time all my jobs. 20 Yeah. A. 20 I carry out science for a long time, very 21 Dr. Croce, I'm going to --21 successfully, and all my publication have been 22 MR. NOLAN: If we can go off the record 22 confirmed. I am one of the most cited scientists in 23 just a second. 23 the entire world, and do you know this so-called H 24 (Discussion off the record.) 24 index, which is a measurement of impact, I have one 25 MR. NOLAN: Go back on the record. 25 of the greatest impacts in the world. I have the

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highest H index of any Italian scientist ever. Okay? Which indicate that my science has been very successful and, in fact, it has.

I receive a lot of prizes and recognition, and I always believe in integrity of science and so I felt that this was an attack on my reputation and I think on science because the way that's been done has been very disgraceful.

Did I answer your question?

Q. You did. Thank you.

And when you say, you say the way "this" has been done was very disgraceful. When you say "this," what do you mean by "this"?

A. The accusation. The accusation by The New York Times and Dr. Sanders.

Q. I just want to step back a minute. Fair to refer to you as a cancer researcher?

A. I would say that's correct.

19 Q. That's a good --

A. I am a geneticist who spend most his time in cancer genetics.

Q. When did you first become a geneticist spending most of your time in cancer genetics?

A. So when I was -- can I -- I would not be that brief --

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Those experiment has the result showing that the specific gene is genetically altered and cause cancer for the first demonstration of the involvement of the specific human gene in cancer biology, you know.

What we call today a targeted therapy, you know everybody talks about targeted therapy and cancer, depend essentially on the discovery that you have a driver, a driver gene that cause cancer. Naturally, if you inhibit the cancer gene, you might be able to have a huge impact on therapy. So that was my first big success, and I got many prizes with that including the Mott, General Motors, one of the most -- of the biggest international prizes.

A few years after — so that was I believe '82. In '84 I made one of the most outstanding discoveries that has a huge impact overall now, I discover, again by studying chromosomal translocation in cancer, I discovered a gene that I named BCL2 for B-cell leukemia/lymphoma 2. Okay?

The gene is phenomenally interesting because it inhibit the process called "apoptosis."

Before people thought that all the cancer gene affected only proliferation. This affect survival.

So I discovered this gene that worked in a

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Q. That's okay.

A. -- so if we start from Adam and Eve. When I was in medical school, I wanted to become a neurobiologist. Went to medical school and I started to be interested really in medicine and particularly I was fascinated by the beginning of molecular biology.

And it turned out that I develop a great interest in cancer biology generally and I was very like it because all my life I work in cancer biology and genetics. And the thing I love the most is discovery, you know? I think I am completely good at discovering important things. That's all.

Q. All right. That wasn't so long. Thank you for that.

And do you, I mean, do you think you've had an impact on treating cancer?

A. Oh, of course. I think I have a huge

impact. Some of my work is in medical textbook. I changed the way of thinking in several area of cancer research. I give you an example. The work, probably my first great success was a discovery of how chromosomal translocation cause cancer, the Burkitt lymphoma, that changed the way we think about cancer,

just to give you an example.

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completely different way and it was found to be involved in follicular lymphoma, and later on it was found to be involved in chronic lymphocytic leukemia.

And then I used a similar approach to discover many cancer genes. I would be too long to describe all of them. Okay?

And so I discovered several cancer gene

And so I discovered several cancer gene and I was interested mainly in tumor initiation.

Q. Tumor?

A. Initiation. How the cancer start.

Q. I see.

A. Okay? Because it became very clear the cancer is the result of multiple genetic alteration but it has to start somewhere. And the gene that are changed at the beginning are very critical, very likely during all process of carcinogen--- I'm sorry.

Q. That's all right. (Interruption.)

A. So we discover many genes which are involved in initiation, or the early stages of carcinogenesis. Most of my early work is in leukemia and lymphoma, and in fact I am considered like the Pope of the genetics of leukemias and lymphomas in the — I understand the solid tumor.

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Now, so I discover many other gene and the mechanism involved in carcinogenesis and then, more recently, I don't know if it was ability or luck, probably a combination of both, I came to another phenomenal discovery which is having a huge impact. I discovered that in the most common human leukemia, which is called chronic lymphocytic leukemia, which is the most common adult leukemia, there was a loss of two microRNA genes, which are close to each other. Okay?

And there was this phenomenal discovery because before this discovery people thought that all the genes which are involved in cancer pathogenesis are genes that they include four proteins. Okay?

So everybody knew that this so-called oncogene, gene that has to be activated in order to be involving cancer, or tumor suppressor genes in order to be inhibited, they shut off the others and are protein-coding genes. Okay?

My discovery beginning in 2002 showed that in fact genetic alteration in the non-coding genome, in gene that do not include the four protein, can be involved in cancer pathogenesis. Okay? That was outstanding discovery. Nobody thought that gene that do not include four protein would be involved in

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lost, BCL2 is expressed at a high level and that is a driver for molecular transformation. Okay?

So after I discovered this gene and a lot of, I mean, this is one of the most studied genes now in the world, pharmaceutical companies started to be interested in developing inhibitors of this gene. Consider the concept of a driver, okay, the expression of the gene that drive, the expression of malignant gene. So if you have a molecule that inhibit the driver, that might have a huge impact in therapy. In therapeutics.

So we all thought that that would be the case, but to make a drug takes millions and millions of dollars. They claim that to make a drug approved by FDA cost a billion dollars. Okay?

So at the beginning a company called Abbott in Chicago had a scientist called Fesik who believed that he could make small molecule to inhibit protein-protein interaction, and everybody at that time thought it would be impossible to make small molecules that inhibit protein-protein interaction.

Instead, Steve Fesik believed that was possible and by determining the three-dimensional structure of protein known as BCL2 family, he was able to design his small molecule that inhibit BCL2.

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anything. Okay?

2.3

1.3

2.1

In fact, that is strange because we know that the coding genome, the genome that include four protein, represent something like 2 percent of the human genome. So if you look at your DNA and my DNA, okay, 98 percent of the genome is non-coding. Why? Okay. So it became obvious after this discovery that in fact the non-coding genome was are very important for a lot of mechanism.

So that was I think a discovery that changed the field, not only of oncology, it changed medicine. Yeah?

And then more recently, and that was when I was here at OSU, we made another discovery that makes things very clear. We discovered that this microRNA that are deleted in chronic lymphocytic leukemia, target the gene that I discovered in 1984, BCL2. Okay?

So microRNA are negative regulator gene expression, they are very small RNA molecule, and they are negative regulators. So the expression of the microRNA shut off the expression of the target genes. Okay? So the function of this microRNA discovered to keep certain gene in check including BCL2. When the negative regulator are

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But there is a caveat, and the caveat is that BCL2 has other family members that do different things, but which are structurally related.

So the first drug that Abbott developed against BCL2, which affected other BCL2 family members that were discovered after BCL2, in particular it inhibited a product called BclX Long, which is critical for the survival of platelets.

So when Abbott gave this drug to patient, it became clear that the drug kill also the platelets, all the platelets, so it could not be used. So they, to make a long story short, after several years Abbott developed a small molecule that is specific only for BCL2.

Q. Okay.

A. The approval was I believe in April 2016. So the gap between discovery of the target and discovery of the -- and the approval by FDA was 32 years. And all my patent on BCL2 were expired because I developed the patent a long time ago.

So Abbott now has a drug that is called venetoclax, or ABT-199. This drug is phenomenal. Okay? This drug is absolutely phenomenal. And --

MR. ARNOLD: Stop there. Let's sprinkle a question in every now and then. Okay?

Page 29 Page 31 1 through to yourself if you would. 1 O. I see. 2 A. Six? What do you want to know about 6? 2 Look at Paragraph 10 of Defendant's 3 Q. Just go ahead and read through 6 and 7 to 3 Exhibit 1 on page 5, please, again just read that to 4 yourself and let me know when you're done. 4 yourself and let me know when you're done. 5 5 A. All right. Looks correct. A. From the top? 6 6 They're fine. Yes, please. Q. 7 7 Q. Okay. You see across the very top of Yes, I read it, 10 and 11. A. 8 8 every page of Defendant's Exhibit 1 is sort of a You see there are a couple of things in 9 stamp that says, "Filed: 5/5/18"? Do you see that? 9 quotation marks in Paragraph 10? 10 10 This one? A. 11 Yes. 11 Do you know what scientist made those O. O. 12 12 statements about you? A. Yes. 13 I'll just represent to you that the court 13 Probably a lot of scientists made that 14 puts that on there. So since -- and I apologize, 14 statement. this is 4/21/2018. I was looking at something else. 15 15 Q. Okay. You don't recognize those 16 Across the top of the page it says "4/21/2018." I 16 particular quotes from something specific? 17 misspoke. 17 A. They could be --18 18 MR. ARNOLD: Well, you don't need to A. Yeah. 4/21/2018. 19 19 Q. So I'm just going to use that date as a guess. If you know who it is, tell him. 20 reference point. 20 THE WITNESS: Huh? 21 21 MR. ARNOLD: If you know who it is who A. Okay. 22 Have you received awards since April 21, 22 said that, then tell him. If you don't know --Q. 23 2018? 23 A. Now I don't remember. 24 24 A. I don't know. That's okay. Okay. Isn't there, and I may not get this Dr. Croce, I'm just looking at a couple --2.5 25 Page 30 Page 32 right, a Dan David Prize or something? 1 I looked up your bios of course, you also received 1 2 A. Yeah. I got it about a year ago, yes. 2 something, I may not say this right, the Cavaliere di 3 3 Dan David Prize. One of the most prestigious prize Gran Croce? 4 A. Is the title that the president of the 4 in the world. 5 5 Q. Tell me what that prize means. What's Republic give to me. 6 What Republic? 6 that about? Q. 7 Italian. A. They give this prize for thing that they 8 The president of Italy. 8 believe are very important in three areas, one is 9 Ciampi. I have a diploma in my office and 9 medicine and biology, and for every year would also I have also a cross and a --10 10 essentially give it to targeted therapy and how on 11 All right. Is that prestigious in Italy? 11 the base of the target, gene target you develop 12 I suppose. I don't care that much about 12 therapy. And I shared this prize. That prize was a 13 those kind of honors, but was nice because I like 13 million dollars. 14 Ciampi, the former president of Italy. 14 I shared this prize with two outstanding 15 Q. I see. people, one was Bert Vogelstein, one of the people 15 16 It was a nice ceremony. 16 with major impact in cancer genetics, and the other 17 I see. When was that? 17 one Mary-Claire King, the lady who discovered BRCA1, 18 God knows. In the '90s I think. Α 18 the gene which is involved in breast cancer 19 Been a while ago. Okay. 19 pathogenesis. So we shared this prize. It was given 20 It is like to be knighted, but not by the 20 in Jerusalem I believe in March of last year. 21 Queen of England, but in this case by the Italian Q. Given where? 2.1 22 president. A. Jerusalem. 22 23 Q. All right. 23 Okay. Q. 24 And there are various degrees. A. 24 In Tel Aviv. In Tel Aviv. And I also 25 Q. I see. Okay. went to Jerusalem, but the ceremony was in Tel-Aviv.

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1 lab work.

- Q. Tell me, if you would, and it's referenced briefly in the complaint, what is a review paper?
- A. The review paper is when some journal asks you to write which in my case I never ask to write the review. In general, I am asked to write reviews. Okay? So a journal know that you are an expert in a certain field and, let's say microRNA, okay, "Dr. Croce, can you write an article on microRNA or microRNA and this disease?" Okay?

So I hate to write review article because I care about one thing, which is discovery, you know? That's what I love. Okay? So I hate to write review article. So if The New England Journal of Medicine ask me to write a review article, I say "Yes," and I write it myself. Okay? Because the huge impact, I have to be extremely — put every idea I think are important to be cited and so on. So in those — in that case I write the article myself, but there are very few of those.

In general, when somebody asks me to write a review article, I -- since the productivity of my people is important to me, and also I want them to mature and they have to be able to write the review and to think in the way to write the review, so I ask Page 47

- may make sense and say what the lab say, you know?
- Q. And in that case would your name go on the review as well as the postdoc?
 - A. Of course.
- Q. Both names.
- A. Because is essentially the postdoc say what the position of the lab is in that specific area.
- 9 Q. So is it an accurate summary by me that 10 you don't enjoy writing reviews but you think it's 11 important that you do so?
 - A. Well, it's important, at least from my point of view, it's important that the young people are able to write the review because it is important.
 - Q. And do reviews ultimately factor into your H index?
 - A. I'm sure it does.
 - Q. Because a review would get cited?
 - A. The review are cited -- the review -- my review that are most cited are some that I wrote myself.
 - Q. And fair to say the H index is important to you?
 - A. Not really.
- 25 Q. Do you --

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- the most appropriate postdoc whether they would like to write the review. Okay? If they say yes and they are committed to do that, I write to the journal and say, "Yes, we will write this review." That's all.
- Q. Okay. And you may have said this and I just missed it, so what's the kind of determining factor as to whether you write it yourself versus ask a postdoc?
 - A. Impact.
- Q. Impact. Okay. So it would depend on the journal?
 - A. Yes.
- Q. I see. And you mentioned New England Journal of Medicine. That's a very impactful journal, right?
- A. Yes. Or one of the big, Nature Genetics, for example, it has a huge impact so I write it. Okay? For less -- since I hate to write review as I mentioned, I ask my -- since it would be good for them, I ask my postdocs if they would like to.
- Q. And typically in that case, if you ask a postdoc, you do it together, the review?
- A. No. In general, they write it. Okay? They know what the idea of the lab, what the lab is doing. Okay? And then I check whether the article

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- A. I mean, it is an indication of productivity. But, you know, I've been cited 220,000 times, so impact is very important. Okay? But the most important thing, in my view, is the impact of discovery, why the discovery is important. We will be remembered for the impact of our discovery, not for that they made 3,000 paper, they make some paper which have really changed the field.
 - Q. In your lab do you talk about the H index?
 - A. We might. But, in general, when I review people, I always look at not only a discovery but also the H index because it's an index of impact. Is not a perfect index of the impact but it's something that you can measure. And, in general, people, at least as far as I know, people who have high impact, high H index, are people who have quite a bit of impact.
 - Q. Okay. And so just so I understand what you just said, if you are reviewing another scientist, you check that scientist's H index?
 - A. In general I do. Not done that much in United States, although is becoming. In Europe they do it all the time. For example, in Europe if you apply for a grant, the first thing you put down is what is your H index because that will give you an

Page 129 Page 131 1 1 Do you, again I don't want to know about Yes. 2 Q. Okay. Are there scientific norms other 2 conversations with your lawyers, but do you have an 3 than what is set forth by ORI? 3 understanding, why didn't you sue USA TODAY? 4 A. Yeah. But we can see that it's --4 A. Ask my lawyer. 5 5 MR. ARNOLD: Objection. Scope. You don't have an understanding? 6 6 -- maybe a gold standard, what I -- a gold MR. ARNOLD: Well, if you have one A. 7 7 standard -independent of what your lawyers have told you, you 8 8 can tell him. Q. All right. 9 -- that the federal government said was 9 THE WITNESS: Huh? A. 10 10 MR. ARNOLD: I said if you have an right. But you've been a scientist a long time. 11 11 understanding independent of what your lawyers have 12 There are -- are there scientific norms other than 12 told you, then you can answer the question. 13 what ORI writes down? 13 MR. NOLAN: Well, I think if he has an 14 A. But that wouldn't count. Of course. You 14 understanding that may or may not --15 1.5 may have your own beliefs but we have to follow the MR. ARNOLD: No, he's not going to answer 16 rules, and there are some very precise rules as 16 based -- you can't cloak a question by saying I want 17 defined by ORI and by the National Institute of 17 your understanding when the basis of the 18 18 Health and by the U.S. government. understanding is an attorney-client communication. 19 Q. Now, Dr. Croce, the complaint starts on 19 MR. NOLAN: I don't think that --20 page 16, you don't need to read anything right now 20 MR. ARNOLD: So if you have an -but there's a heading "USA TODAY Article." Do you 21 21 MR. NOLAN: I disagree. 22 22 MR. ARNOLD: -- understanding outside of 23 A. USA TODAY. Where is it? 23 that, then you can tell him. If not, then you tell 2.4 Q. Bottom of 16. 24 him that you cannot. 25 A. Yes. 25 MR. NOLAN: All right. Well, I will note Page 130 Page 132 Q. My question to you is: Do you recall an 1 on the record that I disagree with that instruction 1 2 article in USA TODAY about you? 2 and, I mean, we don't have to -- I mean, we've stated 3 A. I remember that there was. I don't recall 3 what we think. I think if you have an understanding, 4 that article now. 4 you have an understanding. It's not an 5 Q. All right. Do you recall reading it? 5 attorney-client communication. 6 I must have read it. 6 MR. ARNOLD: Yeah, but if the A. 7 7 Do you recall anybody telling you about understanding is premised upon something your lawyer 8 it? 8 told you and that's the only basis upon which you can 9 A. For sure my lawyer mentioned it to me. 9 have the understanding, it's a backdoor way of saying 10 Q. And do you, I think I know the answer but 10 "Tell me what your lawyer told you." He's not going 11 I'll ask you, do you have any firsthand knowledge of 11 to respond to those questions. 12 any communications Dr. Sanders would have had with 12 MR. NOLAN: I don't think so. 13 USA TODAY reporters? 13 Q. (By Mr. Nolan) All right. Dr. Croce, do 14 A. No. 14 you feel that you were wronged by USA TODAY? Do you feel that you were wronged by USA TODAY? 1.5 Q. Is it an accurate statement that anything 15 you know about what Dr. Sanders said or did not say A. Of course. 16 16 17 to USA TODAY would come from your reading the USA 17 You feel you were wronged by The New York TODAY article? 18 18 Times? A. Yes, big time. 19 A. Correct. 19 20 20 Q. All right. Do you feel that one or the Q. You haven't sued USA TODAY, have you? other wronged you more than the other? 21 A. Excuse me? 21 You have not sued USA TODAY, have you? A. I mean, The New York Time, everybody in 22 22 23 A. Not that I know. Maybe you can give me the world reads it. The USA TODAY, maybe some people 23 24 some good clue. 24 in the bathroom on the airplane read it, or the other 25 Q. I'm on the wrong side for that. 25 papers. New York Time is a big journal. At least in

1	Page 165		Page 167
I .	Q. Okay. And did that article	1	Q. And Clare Francis communicated to Ohio
2	approximately, the best you can recall, when did the	2	State about you?
3	article in Nature run?	3	A. I'm sure they did.
4 .	A. A few years ago. Five, six years ago.	4	MR. ARNOLD: Well, do you know? Do you
5	Q. Five or six years ago.	5	know?
6	A. Maybe ten.	6	THE WITNESS: I know for sure in certain
7	Q. And did that article mention you by name?	7	cases, yes.
8	A. No. It was pre-New York Times.	8	MR. ARNOLD: All right.
9	Q. All right.	9	Q. All right. Tell me what you recall about
10	A. Oh, this Clare Francis was in business	10	how Ohio State dealt with concerns raised about you
11	already.	11	by Clare Francis.
12	Q. Sure. But did the article in Nature	12	A. They do an investigation. Every time they
13	mention your name?	13	got the denunciation they made an investigation.
14	A. No. No. No.	14	Q. And you would have to respond?
15	Q. Okay.	15	A. Of course. Yes.
16	A. I know a lot of people who have been	16	Q. Okay. Did you get legal counsel for that
17	denounced by Clare Francis.	17	one?
18	Q. I understand. No, I just want to	18	A. No.
19	understand	19	Q. And how did Ohio State resolve its
20	A. Always most of them are western blots	20	investigations?
21	and plagiarism.	21	A. The one that were resolved, they look into
22	Q. So most of the concerns that Clare Francis	22	it and say that they look at everything that was
23	has raised concerned western	23	mentioned and it was fine, and I did not have any
24	A. Concerned western blot.	24	responsibility for that.
25	Q. Let me finish.	25	Q. Ohio State didn't have you do anything
1		1	
1	western blots and plagiarism, correct? A. Uh-huh.	1	differently in response to those concerns?
2		2 3	A. Only in two cases of two postdoctors of mine, one was Garofalo and the other one Pichiorri,
4	Q. Is that a yes?A. That is correct.	4	that said in their investigation they found some
	Q. Okay.	1	that said in their investigation they found some
5	O. Okav.	1 5	
5 6		5	degree of sloppiness in the work of these two ladies.
6	A. At least if I remember well the article in	6	degree of sloppiness in the work of these two ladies. We had to make sure that that sloppiness would not
6 7	A. At least if I remember well the article in Nature.	6 7	degree of sloppiness in the work of these two ladies. We had to make sure that that sloppiness would not happen again.
6	A. At least if I remember well the article in Nature.Q. Right. Okay.	6 7 8	degree of sloppiness in the work of these two ladies. We had to make sure that that sloppiness would not happen again. Q. And what did you well, first of all,
6 7 8 9	A. At least if I remember well the article in Nature.Q. Right. Okay.So what, as far as anything you know	6 7 8 9	degree of sloppiness in the work of these two ladies. We had to make sure that that sloppiness would not happen again. Q. And what did you well, first of all, who did you say? Garofalo and Pichiorri?
6 7 8 9 10	A. At least if I remember well the article in Nature. Q. Right. Okay. So what, as far as anything you know about, how did Clare Francis express concerns about	6 7 8 9 10	degree of sloppiness in the work of these two ladies. We had to make sure that that sloppiness would not happen again. Q. And what did you well, first of all, who did you say? Garofalo and Pichiorri? A. Yes. Correct.
6 7 8 9 10 11	A. At least if I remember well the article in Nature. Q. Right. Okay. So what, as far as anything you know about, how did Clare Francis express concerns about you?	6 7 8 9 10 11	degree of sloppiness in the work of these two ladies. We had to make sure that that sloppiness would not happen again. Q. And what did you well, first of all, who did you say? Garofalo and Pichiorri? A. Yes. Correct. Q. Do either of those still work in your lab?
6 7 8 9 10 11 12	A. At least if I remember well the article in Nature. Q. Right. Okay. So what, as far as anything you know about, how did Clare Francis express concerns about you? A. How do I know? I know only from what the	6 7 8 9 10 11 12	degree of sloppiness in the work of these two ladies. We had to make sure that that sloppiness would not happen again. Q. And what did you well, first of all, who did you say? Garofalo and Pichiorri? A. Yes. Correct. Q. Do either of those still work in your lab? A. No. No. They are gone.
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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. At least if I remember well the article in Nature. Q. Right. Okay. So what, as far as anything you know about, how did Clare Francis express concerns about you? A. How do I know? I know only from what the university tells me, you know. Clare Francis made the denunciation either to the university or to the journal or to both and then they come to me. Q. Let's talk about the journal first. Are you talking about Nature or something else? A. No. No. Many different journal. Q. Clare Francis, as far as A. Clare Francis logged in a lot of journal. Q. All right. A. Including PNAS.	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	degree of sloppiness in the work of these two ladies. We had to make sure that that sloppiness would not happen again. Q. And what did you well, first of all, who did you say? Garofalo and Pichiorri? A. Yes. Correct. Q. Do either of those still work in your lab? A. No. No. They are gone. Q. Did you tell them to leave? A. No. Q. Okay. They left as a natural A. One got a very good job in Manchester, that's Garofalo, and the other one got a job at City of Hope in California. Q. So you said Ohio State concluded there was sloppiness? A. Yes, some degree of sloppiness and we had to fix it.
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. At least if I remember well the article in Nature. Q. Right. Okay. So what, as far as anything you know about, how did Clare Francis express concerns about you? A. How do I know? I know only from what the university tells me, you know. Clare Francis made the denunciation either to the university or to the journal or to both and then they come to me. Q. Let's talk about the journal first. Are you talking about Nature or something else? A. No. No. Many different journal. Q. Clare Francis, as far as A. Clare Francis logged in a lot of journal. Q. All right. A. Including PNAS. Q. So Clare Francis expressed concerns about	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	degree of sloppiness in the work of these two ladies. We had to make sure that that sloppiness would not happen again. Q. And what did you well, first of all, who did you say? Garofalo and Pichiorri? A. Yes. Correct. Q. Do either of those still work in your lab? A. No. No. They are gone. Q. Did you tell them to leave? A. No. Q. Okay. They left as a natural A. One got a very good job in Manchester, that's Garofalo, and the other one got a job at City of Hope in California. Q. So you said Ohio State concluded there was sloppiness? A. Yes, some degree of sloppiness and we had to fix it. Q. Did you agree there was some degree of

	Page 189		Page 191
1	Q. So, Dr. Croce, would you how would you	1	A. In all sciences.
2	characterize concerns raised by Dr. Sanders in the	2	Q. In all sciences. Okay.
3	categories you just talked about, discover some	3	A. Some are decrepit. A few are young.
4	mistakes, mostly wrong? All wrong? None wrong? Do	4	Q. All right. So PNAS, and forgive me if you
5	you have a can you characterize those?	5	already said this one, PNAS's index?
6	A. Yeah. In my small experience	6	A. Ten. Around ten.
7	Q. Yes.	7	Q. Okay.
8	A in the case of the thing I know is by	8	A. But it's a good journal. The problem is
9	Sanders, I know that some allegation are wrong and	9	they tend to publish too many article.
10	some allegation brought to the discovery of some	10	Q. Oh, so maybe not selective enough as far
11	mistakes.	11	as the articles.
12	Q. Do you, and I know there are a lot of	12	A. Yeah. But you always find something very
13	articles and a lot of documents, but just sitting	13	good.
14	here talking can you recall a specific allegation or	14	Q. And you've published in that journal, I
15	concern raised by Dr. Sanders that you think is	15	trust?
16	wrong?	16	A. Yeah. I publish a lot of paper in PNAS.
17	A. I think there are several allegation. I	17	Q. Okay. I sort of grouped a handful of
18	will have to look at the thing, but there were	18	things related to PNAS which I don't think they all
19	several, uh-huh.	19	relate to the same thing, but
20	Q. And is it possible that with respect to	20	MR. ARNOLD: Are we on 20 here?
21	some concerns, that you and Dr. Sanders would have	21	Q I'd just like to sort of run through
22	different opinions as to whether it was right or	22	them with you.
23	wrong?	23	A. Okay.
24	A. That is always possible to have a	24	Q. All right. Dr. Croce, do you recognize
25	difference of opinion.	25	Defendant's Exhibit 20?
		1	
	Page 190		Page 192
1	_	1	Page 192 A. Yes, I do.
1 2		1 2	
	Q. Doing okay?		A. Yes, I do.
2	Q. Doing okay? A. Yeah.	2	A. Yes, I do.Q. What is it?A. It's a letter from Muller Fabbri to me concerning a paper in PNAS.
2	Q. Doing okay?A. Yeah.Q. All right. Dr. Croce, I don't remember if	2 3	 A. Yes, I do. Q. What is it? A. It's a letter from Muller Fabbri to me concerning a paper in PNAS. Q. First of all, who is Dr. Fabbri?
2 3 4	Q. Doing okay?A. Yeah.Q. All right. Dr. Croce, I don't remember if we've talked about PNAS specifically. That's a	2 3 4 5 6	 A. Yes, I do. Q. What is it? A. It's a letter from Muller Fabbri to me concerning a paper in PNAS. Q. First of all, who is Dr. Fabbri? A. A former postdoc of mine who is now, he
2 3 4 5	 Q. Doing okay? A. Yeah. Q. All right. Dr. Croce, I don't remember if we've talked about PNAS specifically. That's a journal, right? A. Yes. Q. What does "PNAS" stand for? 	2 3 4 5 6 7	 A. Yes, I do. Q. What is it? A. It's a letter from Muller Fabbri to me concerning a paper in PNAS. Q. First of all, who is Dr. Fabbri? A. A former postdoc of mine who is now, he went to University of Southern California and just a
2 3 4 5 6	Q. Doing okay?A. Yeah.Q. All right. Dr. Croce, I don't remember if we've talked about PNAS specifically. That's a journal, right?A. Yes.	2 3 4 5 6 7 8	A. Yes, I do. Q. What is it? A. It's a letter from Muller Fabbri to me concerning a paper in PNAS. Q. First of all, who is Dr. Fabbri? A. A former postdoc of mine who is now, he went to University of Southern California and just a year ago went to University of Hawaii.
2 3 4 5 6 7	 Q. Doing okay? A. Yeah. Q. All right. Dr. Croce, I don't remember if we've talked about PNAS specifically. That's a journal, right? A. Yes. Q. What does "PNAS" stand for? A. Proceedings of the National Academy of Sciences of the United States of America. 	2 3 4 5 6 7 8	A. Yes, I do. Q. What is it? A. It's a letter from Muller Fabbri to me concerning a paper in PNAS. Q. First of all, who is Dr. Fabbri? A. A former postdoc of mine who is now, he went to University of Southern California and just a year ago went to University of Hawaii. Q. Just looking at his email address here at
2 3 4 5 6 7 8	 Q. Doing okay? A. Yeah. Q. All right. Dr. Croce, I don't remember if we've talked about PNAS specifically. That's a journal, right? A. Yes. Q. What does "PNAS" stand for? A. Proceedings of the National Academy of Sciences of the United States of America. Q. All right. And, if I recall from your 	2 3 4 5 6 7 8 9	A. Yes, I do. Q. What is it? A. It's a letter from Muller Fabbri to me concerning a paper in PNAS. Q. First of all, who is Dr. Fabbri? A. A former postdoc of mine who is now, he went to University of Southern California and just a year ago went to University of Hawaii. Q. Just looking at his email address here at the time of Exhibit 20 it looks like he was at the
2 3 4 5 6 7 8 9 10	 Q. Doing okay? A. Yeah. Q. All right. Dr. Croce, I don't remember if we've talked about PNAS specifically. That's a journal, right? A. Yes. Q. What does "PNAS" stand for? A. Proceedings of the National Academy of Sciences of the United States of America. Q. All right. And, if I recall from your complaint, you are a member of the National Academy 	2 3 4 5 6 7 8 9 10	A. Yes, I do. Q. What is it? A. It's a letter from Muller Fabbri to me concerning a paper in PNAS. Q. First of all, who is Dr. Fabbri? A. A former postdoc of mine who is now, he went to University of Southern California and just a year ago went to University of Hawaii. Q. Just looking at his email address here at the time of Exhibit 20 it looks like he was at the University of Southern California?
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	Page 217	Page 219
1		1 AFFIDAVIT
1 2	 Q. It could be honest error that they were duplicated. 	2 State of Ohio)
3	A. Yes.) SS:
4	Q. Okay.	3 County of) 4 I, CARLO M. CROCE, MD, do hereby certify that
5	A. So in order to be sure, you have to have	I have read the foregoing transcript of my deposition
6	the raw data. Raw data, you are sure.	5 given on Wednesday, March 27, 2019; that together
7	Q. All right. But without the raw data you	with the correction page attached hereto noting 6 changes in form or substance, if any, it is true and
8	can't	correct.
9	A. You are not sure.	7 8
10	Q. Dr. Croce, I'm going to hand you what I'm	CARLO M. CROCE, MD
11	marking as Defendant's Exhibit 25, ask you to take a	9
12	look. I'm not going to ask you to read the entire	I do hereby certify that the foregoing transcript of the deposition of CARLO M. CROCE, MD
13	thing, translate the entire thing, I'll just give you	11 was submitted to the witness for reading and signing;
14	that assurance first.	that after he had stated to the undersigned Notary Public that he had read and examined his deposition,
15	A. I did not read this before so I had to	he signed the same in my presence on the day
16	laugh.	13 of, 2019.
17	Q. You've never seen it before?	14
18	A. I don't believe so.	15 Notary Public
19	Q. All right.	16 17 My commission expires ,
20	A. You know why I laugh?	17 My commission expires, 18
21	Q. Why do you laugh?	19
22	A. That is a championship of the 3,000	20 21
23	Italian scientists, the stars of the research.	22
24	Q. All right.	23
25	A. And who is the number one?	24 25
	Page 218	Page 220
1	_	Page 220
1 2	Page 218 Q. You. A. Yeah.	1 CERTIFICATE 2 State of Ohio)
	Q. You. A. Yeah.	1 CERTIFICATE 2 State of Ohio)
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